

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 December 2000 (21.12.2000)

PCT

(10) International Publication Number
WO 00/77494 A1

(51) International Patent Classification⁷: **G01N 21/27**

CH-6332 Hagendorn (CH). SCHNELL, Urban, Georg
[CH/CH]; Lerchenweg 5, CH-6343 Rotkreuz (CH).

(21) International Application Number: **PCT/EP00/05237**

(22) International Filing Date: **7 June 2000 (07.06.2000)**

(74) Agent: **AMMANN PATENT ATTORNEYS LTD.**
BERNE; A. Ventocilla, Schwarztorstrasse 31, CH-3001
Berne (CH).

(25) Filing Language: **English**

(81) Designated States (*national*): JP, US.

(26) Publication Language: **English**

(84) Designated States (*regional*): European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE).

(30) Priority Data:
99810517.5 **11 June 1999 (11.06.1999)** **EP**

(71) Applicant (*for all designated States except US*): **F. HOFF-**
MANN-LA ROCHE AG [CH/CH]; Grenzacherstrasse
124, CH-4070 Basel (CH).

Published:

- *With international search report.*
- *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.*

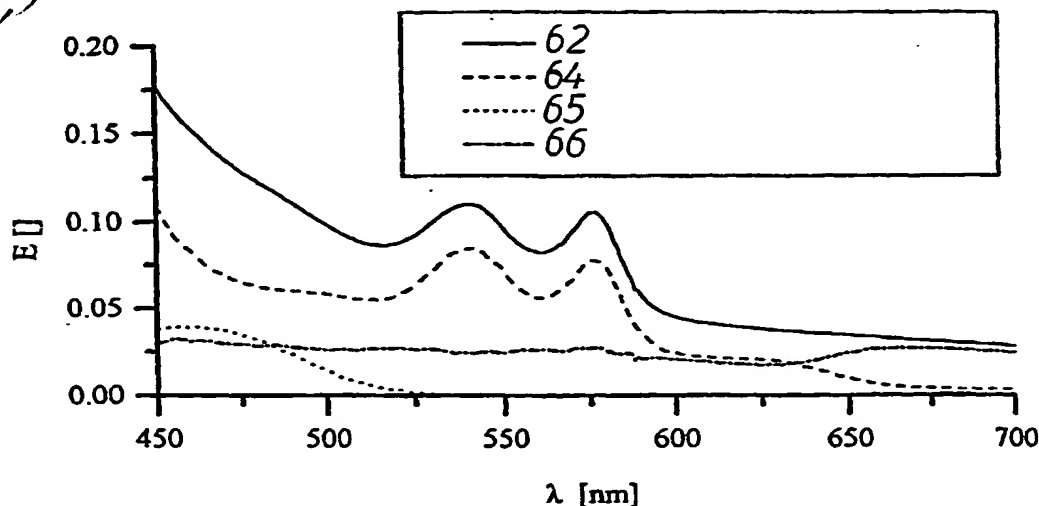
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ELSENHANS,**
Olivier [CH/CH]; Püntenstrasse 24, CH-8932 Mettmens-
stetten (CH). **SAROFIM, Emad** [CH/CH]; Flurstrasse 8,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD AND APPARATUS FOR EXAMINING FLUIDS OF BIOLOGICAL ORIGIN**

Small
H2



(57) Abstract: An extinction spectrum is approximated in a first wavelength range by a combination of a merely theoretical curve and the spectrum of the pure first substance in a first wavelength range, and this evaluation is repeated in a second wavelength range by approximating the measured spectrum (62) by a combination of a hypothetical curve, the spectrum (64) of the first component with the already determined concentration, and the spectrum (65) of the pure second component. The hypothetical curves are preferably straight lines which are defined by slope and ordinate section. In the praxis of the quality test of blood, bilirubin and hemoglobin may be quantitatively determined, whilst the background together with the lipid component can be qualitatively examined by means of the differential spectrum.

WO 00/77494 A1